

<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>		ATTORNEY'S DOCKET NUMBER <b>MYKR1610</b>
INTERNATIONAL APPLICATION NO. <b>PCT/US03/22533</b>		U.S. APPLICATION NO. (If known, see 37 CFR 1.5) <b>10/521697</b>
INTERNATIONAL FILING DATE <b>JULY 18, 2003</b>		PRIORITY DATE CLAIMED <b>JULY 19, 2002</b>
TITLE OF INVENTION <b>FLUID FLOW MEASURING AND PROPORTIONAL FLUID FLOW CONTROL DEVICE</b>		
APPLICANT(S) FOR DO/EO/US <b>CHRISTOPHER WARGO ET AL.</b>		

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

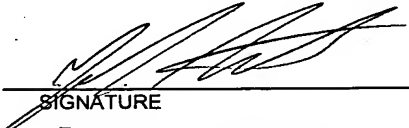
1. ☒ This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. ☒ The US has been elected (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
  - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ has been communicated by the International Bureau.
  - c. ☒ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☒ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
  - a. ☐ is attached hereto.
  - b. ☒ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
  - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ have been communicated by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☐ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

**Items 11 to 20 below concern document(s) or information included:**

11. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☒ A preliminary amendment.
14. ☐ An Application Data Sheet under 37 CFR 1.76.
15. ☐ A substitute specification.
16. ☐ A power of attorney and/or change of address letter.
17. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.
18. ☐ A second copy of the published International Application under 35 U.S.C. 154(d)(4).
19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
20. ☒ Other items or information: *copy of application as filed; response to invitation to correct defects.*

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO. (if known, see 37 CFR 1.5) <b>10/521697</b>		INTERNATIONAL APPLICATION NO. <b>PCT/US03/22533</b>		ATTORNEY'S DOCKET NUMBER <b>MYKR1610</b>	
21. The following fees are submitted:				Applicant use	Office use only
<input checked="" type="checkbox"/> a) Basic national fee..... \$300.00				\$ 300.00	
<input checked="" type="checkbox"/> b) Examination fee..... \$200.00				\$ 200.00	
<input checked="" type="checkbox"/> c) Search fee..... \$500.00				\$ 500.00	
<b>TOTAL OF ABOVE CALCULATIONS = \$1000.00</b>				\$ 1000.00	
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.					
Total Sheets	Extra sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE		
- 100 =	/50 =		x \$250.00	\$	
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				\$	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$	
Total claims	37 - 20 =	17	x \$50.00	\$ 850.00	
Independent claims	7 - 3 =	4	x \$200.00	\$ 800.00	
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$360.00	\$	
<b>TOTAL OF ABOVE CALCULATIONS =</b>				\$ 1650.00	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.				\$	
<b>SUBTOTAL =</b>				\$ 2650.00	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				\$	
<b>TOTAL NATIONAL FEE =</b>				\$ 2650.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				\$	
<b>TOTAL FEES ENCLOSED =</b>				\$ 2650.00	
Amount to be refunded:					\$
Amount to be charged					\$
<p>a. <input checked="" type="checkbox"/> A check in the amount of \$ <u>2650.00</u> to cover the above fees is enclosed.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>50-3183</u>. A duplicate copy of this sheet is enclosed.</p> <p>d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</p>					
<p><b>NOTE:</b> Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.</p> <p>SEND ALL CORRESPONDENCE TO:</p> <p><b>JOHN L. ADAIR</b>  <b>SPRINKLE IP LAW GROUP</b>  <b>1301 W. 25<sup>th</sup> ST., SUITE 408</b>  <b>AUSTIN, TX 78705</b></p>					
				<p style="text-align: center;"></p> <p>SIGNATURE</p> <p><b>JOHN L. ADAIR</b></p> <p>NAME</p> <p><b>48,828</b></p> <p>REGISTRATION NUMBER</p>	

TRANSMITTAL LETTER TO THE  
UNITED STATES RECEIVING OFFICE

Date	July 18, 2003
International Application No.	10/521697
Attorney Docket No.	200200030-PCT

DT01 Rec'd PCT/STC 19 JAN 2005

I. Certification under 37 CFR 1.10 (If applicable)

EU227744100US
Express Mail mailing number

July 18, 2003
Date of Deposit

I hereby certify that the application/correspondence attached hereto is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Assistant Commissioner for Patents, Box PCT, Washington, D.C. 20231.

Signature of person mailing correspondence

Ann Marie Mahan
Typed or printed name of person mailing correspondence

II. ☒ New International Application

TITLE	FLUID FLOW MEASURING AND PROPORTIONAL FLUID FLOW CONTROL DEVICE
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Earliest priority date (Day/Month/Year)
19 July 2002

**SCREENING DISCLOSURE INFORMATION:** In order to assist in screening the accompanying international application for purposes of determining whether a license for foreign transmittal should and could be granted and for other purposes, the following information is supplied. (Note: check as many boxes as apply):

- A. ☐ The invention disclosed was not made in the United States.
- B. ☐ There is no prior U.S. application relating to this invention.
- C. ☒ The following prior U.S. application(s) contain subject matter which is related to the invention disclosed in the attached international application. (NOTE: priority to these applications may or may not be claimed on form PCT/RO/101 (Request) and this listing does not constitute a claim for priority.)

application no.	60/397,162	filed on	July 19, 2002
application no.		filed on	

- D. ☒ The present international application contains additional subject matter not found in the prior U.S. application(s) identified in paragraph C. above. The additional subject matter is found on pages 1-60 and ☒ DOES NOT ALTER ☐ MIGHT BE CONSIDERED TO ALTER the general nature of the invention in a manner which would require the U.S. application to have been made available for inspection by the appropriate defense agencies under 35 U.S.C. 181 and 37 CFR 5.1. See 37 CFR 5.15

III. ☐ A Response to an Invitation from the RO/US. The following document(s) is(are) enclosed:

- A. ☐ A Request for An Extension of Time to File a Response
- B. ☐ A Power of Attorney (General or Regular)
- C. ☐ Replacement pages:

pages		of the request (PCT/RO/101)	pages		of the figures
pages		of the description	pages		of the abstract
pages		of the claims			

- D. ☒ Submission of Priority Documents

Priority document		Priority document	
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- E. ☒ Fees as specified on attached Fee Calculation sheet form PCT/RO/101 annex

IV. ☐ A Request for Rectification under PCT 91 ☐ A Petition ☐ A Sequence Listing Diskette

V. ☒ Other (please specify):

1. PCT Request  
2. -Specification

3. PCT Fee Calculation Sheet  
4. Statement Explaining Lack of Signature

The person  
signing this  
form is the:

<input type="checkbox"/> Applicant	Kevin S. Lemack
<input checked="" type="checkbox"/> Attorney/Agent (Reg. No.) 32,579	Typed name of signer
<input type="checkbox"/> Common Representative	 Signature

10/521697

DTOT Rec'd PCT/PTC 19 JAN 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : MYKROLIS CORPORATION et al.

International  
Application No. : Not Yet Assigned

International  
Filing Date : Herewith By Express Mail

For : FLUID FLOW MEASURING AND PROPORTIONAL FLUID  
FLOW CONTROL DEVICE

Authorized  
Officer : Not Yet Assigned

Attorney  
Docket No. : 200200030-PCT

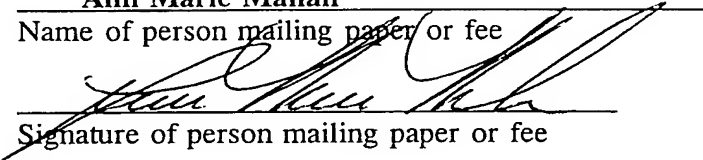
Type of paper : **PCT Filing Fee**

"EXPRESS MAIL" MAILING LABEL NO. EU227744100US  
DATE OF DEPOSIT: July 18, 2003

I hereby certify that this paper or fee is being deposited with the United States Postal Service  
"Express Mail Post Office to Addressee" Service under 37 CFR 1.10 on the date indicated above  
and is addressed to: Commissioner for Patents, **Mail Stop: PCT**, P.O. Box 1450, Alexandria, VA  
22313-1450.

Ann Marie Mahan

Name of person mailing paper or fee

  
Signature of person mailing paper or fee

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

10/521697  
Dist Rec'd PCT/PT 19 JAN 2005

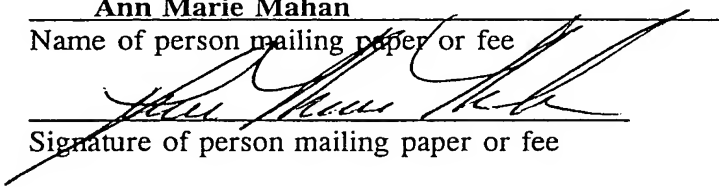
Applicants : MYKROLIS CORPORATION et al.  
International  
Application No. : Not Yet Assigned  
International  
Filing Date : Herewith By Express Mail  
For : FLUID FLOW MEASURING AND PROPORTIONAL FLUID  
FLOW CONTROL DEVICE  
Authorized  
Officer : Not Yet Assigned  
Attorney  
Docket No. : 200200030-PCT  
Type of paper : PCT Fee Calculation Sheet

"EXPRESS MAIL" MAILING LABEL NO. EU227744100US  
DATE OF DEPOSIT: July 18, 2003

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22313-1450.

Ann Marie Mahan

Name of person mailing paper or fee

  
Signature of person mailing paper or fee

**PCT**

**FEE CALCULATION SHEET**

**Annex to the Request**

For receiving Office use only

International Application No.

Date stamp of the receiving Office

Applicant's or agent's  
file reference

200200030-PCT

Applicant

MYKROLIS CORPORATION et al.

**CALCULATION OF PRESCRIBED FEES**

1. TRANSMITTAL FEE . . . . . 240.00 **T**

2. SEARCH FEE . . . . . 700.00 **S**

International search to be carried out by US  
(If two or more International Searching Authorities are competent to carry out the international search, indicate the name of the Authority which is chosen to carry out the international search.)

3. INTERNATIONAL FEE

**Basic Fee**

Where items (b) and/or (c) of Box No. IX apply, enter Sub-total number of sheets } 87  
Where items (b) and (c) of Box No. IX do not apply, enter Total number of sheets }

**b1** first 30 sheets . . . . . 476.00 **b1**

**b2** 57 x \$12.00 = 684.00 **b2**  
number of sheets in excess of 30 fee per sheet

**b3** additional component (only if sequence listings and/or tables related thereto are filed in computer readable form under Section 801(a)(i), or both in that form and on paper, under Section 801(a)(ii)):  
400 x                      = 0 **b3**  
fee per sheet

Add amounts entered at b1, b2 and b3 and enter total at B . . . . . 1,160.00 **B**

**Designation Fees**

The international application contains 94 designations.

5 x \$104.00 = 520.00 **D**  
number of designation fees payable (maximum 5) amount of designation fee

Add amounts entered at B and D and enter total at I . . . . . 1,680.00 **I**

(Applicants from certain States are entitled to a reduction of 75% of the international fee. Where the applicant is (or all applicants are) so entitled, the total to be entered at I is 25% of the sum of the amounts entered at B and D.)

4. FEE FOR PRIORITY DOCUMENT (if applicable) . . . . . 20.00 **P**

5. TOTAL FEES PAYABLE . . . . . 2,640.00

Add amounts entered at T, S, I and P, and enter total in the TOTAL box

TOTAL

☐ The designation fees are not paid at this time.

**MODE OF PAYMENT**

☐ authorization to charge deposit account (see below) ☐ postal money order ☐ cash ☐ coupons  
☒ cheque ☐ bank draft ☐ revenue stamps ☐ other (specify):

**AUTHORIZATION TO CHARGE (OR CREDIT) DEPOSIT ACCOUNT**

(This mode of payment may not be available at all receiving Offices)

☐ Authorization to charge the total fees indicated above.  
☒ (This check-box may be marked only if the conditions for deposit accounts of the receiving Office so permit) Authorization to charge any deficiency or credit any overpayment in the total fees indicated above.  
☐ Authorization to charge the fee for priority document.

Receiving Office: RO/ US

Deposit Account No.: 14-0930

Date: July 18, 2003

Name: Kevin S. Lemack

Signature: [Signature]

10/521697

DTU Rec'd PCT/PTC 19 JAN 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : MYKROLIS CORPORATION et al.

International  
Application No. : Not Yet Assigned

International  
Filing Date : Herewith By Express Mail

For : FLUID FLOW MEASURING AND PROPORTIONAL FLUID  
FLOW CONTROL DEVICE

Authorized  
Officer : Not Yet Assigned

Attorney  
Docket No. : 200200030-PCT

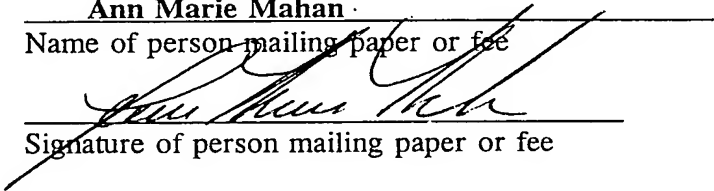
Type of paper : Statement Explaining Lack of Signature

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DATE OF DEPOSIT: July 18, 2003

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"Express Mail Post Office to Addressee" Service under 37 CFR 1.10 on the date indicated above  
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22313-1450.

Ann Marie Mahan

Name of person mailing paper or fee

  
Signature of person mailing paper or fee

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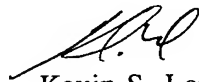
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Mail Stop: PCT

STATEMENT EXPLAINING LACK OF SIGNATURE

The undersigned was unable to obtain a signed power of attorney from the applicants prior to filing the above international application. A signed power of attorney will be submitted in due course.

Respectfully submitted,



Kevin S. Lemack  
Agent for Applicant  
Registration No. 32,579  
Niels & Lemack  
176 E. Main Street  
Westboro, Massachusetts 01581  
TEL: (508) 898-1818



10/521697  
Dist. Rec'd PCT/PT  
19 JAN 2005

UNITED STATES PATENT AND TRADEMARK OFFICE AS PCT RECEIVING OFFICE

Applicants : MYKROLIS CORPORATION et al.

International  
Application No. : PCT/US03/22533

International  
Filing Date : 18 July 2003

For : FLUID FLOW MEASURING AND PROPORTIONAL FLUID  
FLOW CONTROL DEVICE

Authorized  
Officer : Virginia Irby

Attorney  
Docket No. : 200200030-PCT

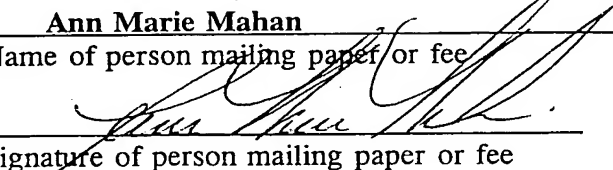
Commissioner for Patents  
P.O. Box 1450  
Mail Stop: PCT  
Alexandria, VA 22313-1450

Type of paper : Letter of Transmittal

"EXPRESS MAIL" MAILING LABEL NO. ER247803252US  
DATE OF DEPOSIT: October 17, 2003

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Ann Marie Mahan  
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Signature of person mailing paper or fee

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UNITED STATES PATENT AND TRADEMARK OFFICE AS PCT RECEIVING OFFICE

10/521697  
DT01 Rec'd PCT/PTO 19 JAN 2005

Applicants : MYKROLIS CORPORTION et al.  
International  
Application No. : PCT/US03/22533  
International  
Filing Date : 18 July 2003 (18.07.03)  
For : FLUID FLOW MEASURING AND PROPORTIONAL FLUID  
FLOW CONTROL DEVICE  
Authorized  
Officer : Virginia Irby  
Attorney  
Docket No. : 200200030-PCT

Commissioner for Patents  
P.O. Box 1450  
Mail Stop: PCT  
Alexandria, VA 22313-1450

Sir:

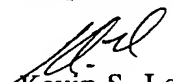
LETTER OF TRANSMITTAL

Pursuant to the requirement in the Invitation to Correct Defects in the International Application dated September 5, 2003 (copy enclosed, together with Annex A and C1) executed PCT Powers of Attorney (5-Pages) and corrected formal drawings (A4 size)(20-sheets) are submitted herewith.

A First Request for Extension of Time was faxed on October 3, 2003, therefore reflecting a new due date of November 5, 2003.

Also enclosed are Corrections under PCT Rule 92bis (1-Page), together with a Replacement Page 2 of the PCT Request Form (1-Page).

Respectfully submitted,

  
Kevin S. Lemack  
Agent for Applicant  
Registration No. 32,579  
Nields & Lemack  
176 E. Main Street - Suite 7  
Westboro, Massachusetts 01581  
TEL: (508) 898-1818

10/521697

UNITED STATES PATENT AND TRADEMARK OFFICE AS PCT RECEIVING OFFICE

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International  
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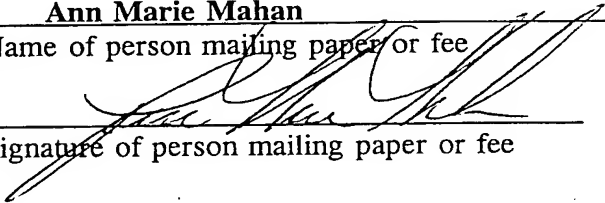
Type of paper : Copy of the Invitation to Correct Defects dated 9/5/03, together  
with Annex A and C1

"EXPRESS MAIL" MAILING LABEL NO. ER247803252US  
DATE OF DEPOSIT: October 17, 2003

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Ann Marie Mahan

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UNITED STATES PATENT AND TRADEMARK OFFICE AS PCT RECEIVING OFFICE

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Officer : Virginia Irby

Attorney  
Docket No. : 200200030-PCT

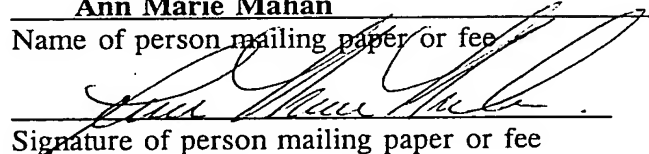
Commissioner for Patents  
P.O. Box 1450  
Mail Stop: PCT  
Alexandria, VA 22313-1450

Type of paper : PCT Powers of Attorney (5-Pages)

"EXPRESS MAIL" MAILING LABEL NO. ER247803252US  
DATE OF DEPOSIT: October 17, 2003

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Ann Marie Mahan  
Name of person mailing paper or fee

  
Signature of person mailing paper or fee

10/521697

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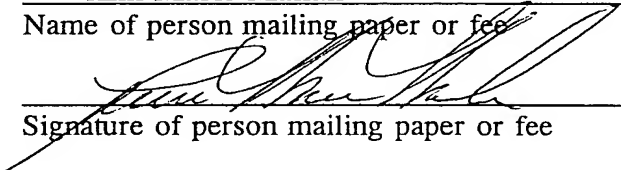
Type of paper : Corrections Under PCT Rule 92bis (1-pages), together with a  
Replacement Page 2 of the PCT Request Form (1-Page)

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Ann Marie Mahan

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Signature of person mailing paper or fee

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Application No. : PCT/US03/22533

International  
Filing Date : 18 July 2003 (18.07.03)

For : FLUID FLOW MEASURING AND PROPORTIONAL FLUID  
FLOW CONTROL DEVICE

Authorized  
Officer : Virginia Irby


Attorney  
Docket No. : 200200030-PCT

Commissioner of Patents  
P.O. Box 1450  
Mail Stop: PCT  
Alexandria, VA 22313-1450  
Sir:

CORRECTIONS UNDER PCT RULE 92bis

Corrections are respectfully requested on the second page of the PCT Request form. The third inventor was incorrectly listed as "NIERMEYER, Karl", should read as "NIERMEYER, J. Karl" and his address should read "Groton Road" not "Groton Street". The last inventor "BASSER, William" was inadvertently omitted and should be added. A new second page of the PCT Request, with the appropriate corrections is enclosed herewith to replace the old second page of the PCT Request, which was filed on July 18, 2003. The executed Powers of Attorney, which includes the above corrections, are filed simultaneously herewith together with the Invitation to Correct Defects.

Respectfully submitted,

  
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